

Release notes for ENDF/B Development n-050_Sn_114
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=5031, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=5031, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      249 TO      328
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=5031, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=5031, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      249
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5031, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      330
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      451
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      483
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      515
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      534
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 543

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 548

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 562

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 573

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 592

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 610

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 627

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 644

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 56 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 56 | RECORD NUMBER | 661 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 57 | RECORD NUMBER | 677 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 58 | RECORD NUMBER | 693 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 59 | RECORD NUMBER | 709 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 60 | RECORD NUMBER | 724 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 61 | RECORD NUMBER | 739 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 62 | RECORD NUMBER | 754 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 63 | RECORD NUMBER | 768 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 64 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 64 | RECORD NUMBER | 782 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 65 | RECORD NUMBER | 796 |
| SECTION 3/ 65 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 66 | RECORD NUMBER | 809 |
| SECTION 3/ 66 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 67 | RECORD NUMBER | 822 |
| SECTION 3/ 67 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 68 | RECORD NUMBER | 835 |
| SECTION 3/ 68 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 69 | RECORD NUMBER | 847 |
| SECTION 3/ 69 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 70 | RECORD NUMBER | 859 |
| SECTION 3/ 70 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 71 | RECORD NUMBER | 870 |
| SECTION 3/ 71 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 72 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 72 | RECORD NUMBER | 881 |
| SECTION 3/ 72 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 73 | RECORD NUMBER | 892 |
| SECTION 3/ 73 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 74 | RECORD NUMBER | 902 |
| SECTION 3/ 74 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 75 | RECORD NUMBER | 912 |
| SECTION 3/ 75 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 76 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 76 | RECORD NUMBER | 922 |
| SECTION 3/ 76 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT= 91 | RECORD NUMBER | 931 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT=102 | RECORD NUMBER | 940 |
| SECTION 3/102 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT=103 | RECORD NUMBER | 966 |
| SECTION 3/103 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT=104 (0): Directory (b)

- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT=104 | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 981 |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT=105 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 993 |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT=106 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT=106 | |
| SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER 1003 |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 3, MT=107 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 3, MT=107 | |
| SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1015 |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 2 (0): Directory (b)
- | | |
|--|--------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 2 | |
| SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER 1032 |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 16 | |
| SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER 1253 |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 17 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 17 | |
| SECTION 4/ 17 NOT IN DIRECTORY | RECORD NUMBER 1264 |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 22 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 22 | |
| SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER 1275 |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 28 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 28 | |
| | SECTION 4/ 28 NOT IN DIRECTORY | RECORD NUMBER 1286 |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 51 | |
| | SECTION 4/ 51 NOT IN DIRECTORY | RECORD NUMBER 1297 |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 52 | |
| | SECTION 4/ 52 NOT IN DIRECTORY | RECORD NUMBER 1320 |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 53 | |
| | SECTION 4/ 53 NOT IN DIRECTORY | RECORD NUMBER 1343 |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 54 | |
| | SECTION 4/ 54 NOT IN DIRECTORY | RECORD NUMBER 1366 |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 55 | |
| | SECTION 4/ 55 NOT IN DIRECTORY | RECORD NUMBER 1389 |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 56 | |
| | SECTION 4/ 56 NOT IN DIRECTORY | RECORD NUMBER 1412 |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 57 | |
| | SECTION 4/ 57 NOT IN DIRECTORY | RECORD NUMBER 1435 |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 58 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 58 | RECORD NUMBER | 1458 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 59 | RECORD NUMBER | 1481 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 60 | RECORD NUMBER | 1504 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 61 | RECORD NUMBER | 1527 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 62 | RECORD NUMBER | 1550 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 63 | RECORD NUMBER | 1573 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 64 | RECORD NUMBER | 1596 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 65 | RECORD NUMBER | 1619 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 66 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 66 | |
| | SECTION 4/ 66 NOT IN DIRECTORY | RECORD NUMBER 1642 |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 67 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 67 | |
| | SECTION 4/ 67 NOT IN DIRECTORY | RECORD NUMBER 1665 |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 68 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 68 | |
| | SECTION 4/ 68 NOT IN DIRECTORY | RECORD NUMBER 1688 |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 69 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 69 | |
| | SECTION 4/ 69 NOT IN DIRECTORY | RECORD NUMBER 1711 |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 70 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 70 | |
| | SECTION 4/ 70 NOT IN DIRECTORY | RECORD NUMBER 1734 |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 71 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 71 | |
| | SECTION 4/ 71 NOT IN DIRECTORY | RECORD NUMBER 1757 |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 72 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 72 | |
| | SECTION 4/ 72 NOT IN DIRECTORY | RECORD NUMBER 1780 |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 73 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 73 | |
| | SECTION 4/ 73 NOT IN DIRECTORY | RECORD NUMBER 1803 |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 74 (0): Directory (b)

- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 74 | |
| | SECTION 4/ 74 NOT IN DIRECTORY | RECORD NUMBER 1826 |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 75 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 75 | |
| | SECTION 4/ 75 NOT IN DIRECTORY | RECORD NUMBER 1849 |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 76 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 76 | |
| | SECTION 4/ 76 NOT IN DIRECTORY | RECORD NUMBER 1872 |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 4, MT= 91 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 4, MT= 91 | |
| | SECTION 4/ 91 NOT IN DIRECTORY | RECORD NUMBER 1895 |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 5, MT= 16 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 5, MT= 16 | |
| | SECTION 5/ 16 NOT IN DIRECTORY | RECORD NUMBER 1919 |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 5, MT= 17 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 5, MT= 17 | |
| | SECTION 5/ 17 NOT IN DIRECTORY | RECORD NUMBER 1970 |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 5, MT= 22 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 5, MT= 22 | |
| | SECTION 5/ 22 NOT IN DIRECTORY | RECORD NUMBER 1987 |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 5, MT= 28 (0): Directory (b)
- | | | |
|--|---|--------------------|
| | ERROR(S) FOUND IN MAT=5031, MF= 5, MT= 28 | |
| | SECTION 5/ 28 NOT IN DIRECTORY | RECORD NUMBER 2190 |
79. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=5031, MF= 5, MT= 91 (0): Directory (b)

- **psyche** Warnings:

1. Level density in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 7.59976E-05 / ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 7.59976E-05 / DENSITY 7.73880E+01 SHOULD BE 7.60533E+01 (0): URR dens. (a)

```
FILE 2
SECTION 151
ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 7.59976E-05
ENERGY = 2.00000E+03. STRENGTH FUNCTION IS 7.59976E-05
DENSITY 7.73880E+01 SHOULD BE 7.60533E+01
```

- **groupie** Errors:

1. Very small elastic cross section found
0: Small elastic

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
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ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- **fudge-4.0** Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.32%
```

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.12%
```

- **fudge-4.0** Errors:

1. Calculated and tabulated Q values disagree.
reaction label 28: n[multiplicity:'2'] + Sn113 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -9640854.215682983 eV vs -1.03041e7 eV!
```

2. Calculated and tabulated Q values disagree.
reaction label 29: n[multiplicity:'3'] + Sn112 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -17383941.08781433 eV vs -1.80542e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 30: n + H1 + In113 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7821926.097518921 eV vs -8481630. eV!

4. Calculated and tabulated Q values disagree.
reaction label 31: Sn115 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 8204719.430053711 eV vs 7546590. eV!

5. Calculated and tabulated Q values disagree.
reaction label 32: n + He4 + Cd110 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1974501.168395996 eV vs -2.6329e6 eV!

6. Calculated and tabulated Q values disagree.
reaction label 33: H1 + In114_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -548074.6940917969 eV vs -1201540. eV!

7. Calculated and tabulated Q values disagree.
reaction label 34: H2 + In113_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5597359.996582031 eV vs -6171510. eV!

8. Calculated and tabulated Q values disagree.
reaction label 35: H3 + In112_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8784997.66229248 eV vs -9434450. eV!

9. Calculated and tabulated Q values disagree.
reaction label 36: He3 + Cd112_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6181955.684173584 eV vs -6837930. eV!

10. Calculated and tabulated Q values disagree.
reaction label 37: He4 + Cd111_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 5001344.796524048 eV vs 4348190. eV!

• njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided